Geometry

Area, SA, and Volume

Option 1: Choose a pizza place. You can use this site if you like or look up your own: <http://www.giordanos.com/menu.html>

1. Compute the areas of small, medium, and large pizzas for a single type of pizza. (Remember the sizes mentioned are diameters.)
2. Compute how much more pizza you get for each size. (Figure out how many TIMES more pizza.)
3. Compute the price per square inch for each pizza.

What to include in blog:

1. Website for data. (1 pt)
2. Sizes and prices for the three pizzas. (1 pt)
3. Areas for each size. Include labels (4 pts)
4. How much more pizza you get for each size. EXPLAIN YOUR WORK! (4 pts)
5. Price per square inch for each pizza. (3 pts)
6. Write a paragraph (at least 5 sentences) explaining your results (4 pts)
7. Write a paragraph (at least 5 sentences) explaining why knowing how to find area is important. (3 pts)

Option 2: Figure out if the shape of the Pringle can is the ideal size. That is, figure out if it is the cheapest container for the volume.

1. Find the volume of the can in inches. Round your answer to one decimal place. BE PRECISE!
2. Find the SA of the can in inches. Round your answer to one decimal place.
3. Come up with another container that has a similar volume AND holds all of the chips. Give the dimensions and SA of this container.
4. Compare the results from 2 and 3.

What to include in blog:

1. Measurements of Pringles can. (2 pts)
2. Volume of can with units. (3 pts)
3. SA of can with units. (3 pts)
4. Description of new container, dimensions, AND SA. (4 pts)
5. Write a paragraph (at least 5 sentences) explaining your results. (4 pts)
6. Write a paragraph (at least 5 sentences) explaining who would need to use this process/why it’s important. (4 pts)